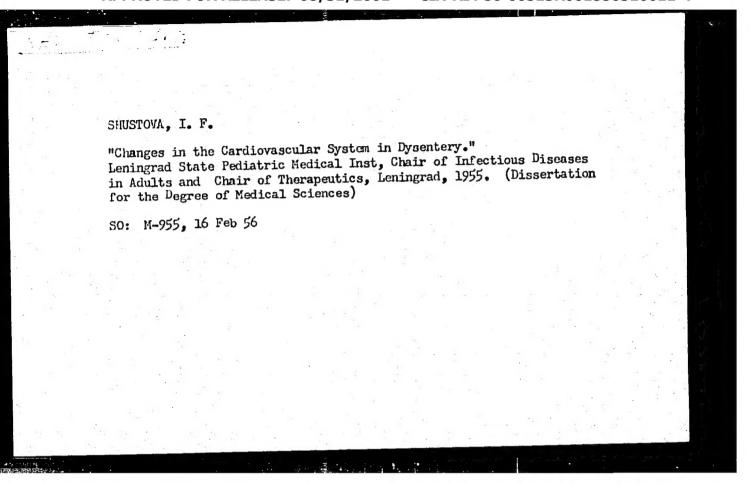
KULIKOV, K.A., doktor fiz.-matem. nauk, prof., nauchn. red.;
SHUSTOVA, I.B., red.

[The universe around us] Vselennaia vokrug nas. Moskva,
Znanie, 1965. 151 p. (Narodnyi universitet: Estestvennonauchnyi fakul'tet, no.12)

(MIRA 18:12)

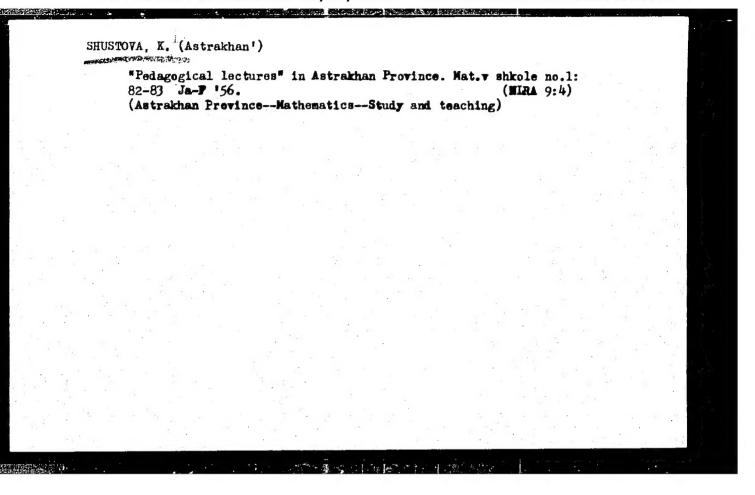


The State of the S

SHUSTOVA, I.F., assistent; VITKOVSKAYA, M.E., ordinator, BOBOMOLOVA, N.N., vrach gorodskoy epidstantsii

Further observations on the treatment of dysentery in adults with furacilin, and late results of an epidemiological investigation. Sbor. trud. Kursk. gos. med. inst. no.13:216-218 '58. (MIRA 14:3)

l. Iz kliniki infektsionnykh bolezney (zav. - dotsent M.Ye. Gal¹perin) Kurskogo gosudarstvennogo meditsinskogo instituta. (DYSENTERY) (FURACILIN)



SHUSTOVA, K.I. (Astrakhan')

Lessons for the analysis of tests. Mat.v shkole no.6:44-45 M-D '57 (MIRA 10:11)

(Mathematics--Study and teaching)

SHUSTOVA, K.S. Study of the effect of antibiotics of the tetracycline series on the capacity of E. coli to synthesize vitamin B₁₂. Mikrobiol. zhur. 26 no.5:57-60 '64. (MIRA 18:7) 1. Khar'kovskiy meditsinskiy institut.

L 54037-65 EWT(1) GS/GW ACCESSION NR: AT5010233

UR/0000/64/000/000/0112/0118

341

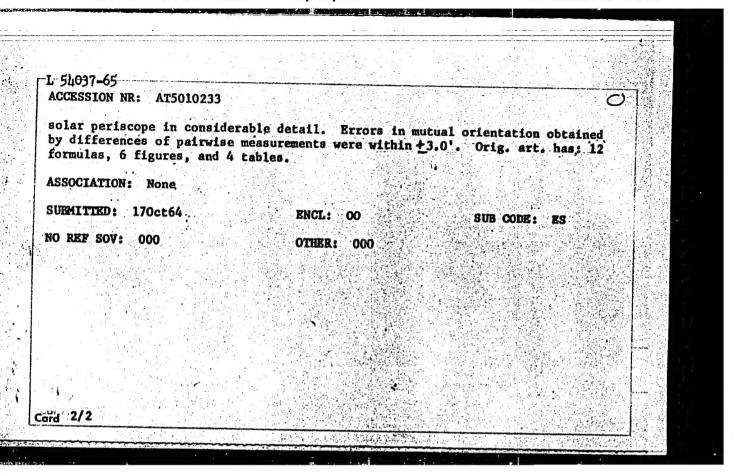
AUTHOR: Shustova, L. N.

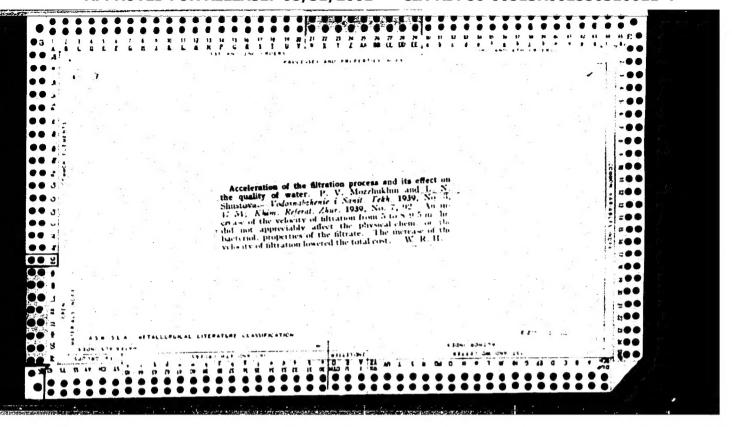
TITLE: Determination of the external orientation elements Alpha and Omega using the Santoni solar periscope

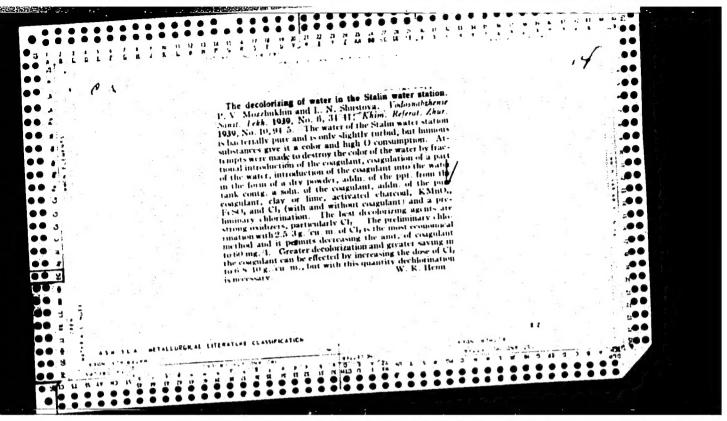
SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Laboratoriya aerometodoy. Spetsial'nyye voprosy fotogrammetrii (Special problems in photogrammetry). Moscow, Izd-vo Nauka, 1964, 112-118

TOPIC TAGS: strip set external orientation, solar goniometer, solar periscope, solar goniometer angle, photogrammetry, aerial surveying

ABSTRACT: In 1960, during a search for new power transmission line routes, the Laboratoriya aerometodov (Laboratory for Aerial Methods) carried out aerial surveying using the Santoni solar periscope. The camera of this periscope was rigidly connected with an AFA camera in such a way that the sun was photographed simultaneously with each aerial exposure. An appropriate processing of the pictures yielded the longitudinal and transverse winclination of the frame. The film processing was carried out with the Santoni solar goniometer, while the and w angles were extracted by means of a solar calculator. The present paper courlines the method for the determination of angles and w by means of the







GAMOVA-KAYUKOVA, N. I SHUSTOVA, L. N.

Determination of stafilococci in food products. Gig. sanit. Moskva. no.9:33-36 Sept. 1950. (CLML 20:1)

1. Of the Central Sanitary-Hygienic Laboratory, Moscow.

PETROVICH, S.L.; SHUSTOVA, L.H.

Microflora of watervelons. Gig.sanit., Moskva no.3:41-44 Mar 1951.

(CIML 20:7)

1. Of the Laboratory of the Sanitary Epidemiological Station,

Moscow.

SHUSTOVA, L.N.; LETROVICH, S.L.

Unification of the registration of coli bacilli in sanitation and bacteriological examinations of food products. Gig.i san. no.5:32-35 My '54.

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.

(Esherichia coli)(Food—Bacteriology)

CHUSTOVA, WH

AID P - 3902

Subject

USSR/Medicine

Card 1/2

Pub. 37 - 6/21

Authors

Shustova, L. N. and S. L. Petrovich

Title

Methods of sanitary and bacteriological investigations

of drinking water

Periodical

Gig. 1. san., 12, 23-26, D 1955

Abstract

Discusses the All-Union State Standard for specifications of quality of drinking water, issued May 1, 1954.
This GOST 2874-54 is considerably changed when compared with the preceding GOST 2874-45, but presents the same methods of bacteriological water analysis as GOST 5216-50, four years its senior. The author recommends reviewing the standard methods of water analysis taking into consideration modern scientific literature and

practical observations.

CIA-RDP86-00513R001550310011-4" APPROVED FOR RELEASE: 08/31/2001

USSMyMicrobiology, Schitchy Microbiology of Food Products.

Abs Jour : Rof Zhur - Biol., Ho 14, 1958, No 52359

Author : Shustova L.M., Potrevich S.L.
Inst : Mosew Scientific Research Institute of Sanita-

tion and Hygiene

: On the Mothod of Sanitary Bactericlogical Research in Ailk and Milk Products Tible

Orig Pub : Inform. byul. Mosk. a.-i in-t sanitarii i

gigiyeny, 1957, No 9, 39-42

Abstract : No abstract

Card : 1/1

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.mad.
nauk; QOHLZNKO, M.V., doktor biolog.nauk; MURAV'TEV, V.P.;
nauk; QOHLZNKO, M.V., doktor biolog.nauk; MURAV'TEV, V.P.;
ernshevov, S.Ye., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;
doktor biolog.nauk; BEL!"YUKOVA, K.I., doktor biolog.nauk; STARYGINA,
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; OSNITSKAYA, Ye.A.,
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A.,
fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZAEEK'TAN,
fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZAEEK'TAN,
R.O., kand.biolog.nauk; TETYUNEVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2.,
perer. i dop. Moskva, Gos.izd-vo selkhoz.lit-ry, 1960, 467 p.
(MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'yev).
(Bacteria, Phytopathogenic) (Plant diseases)

L 54035-65

EWT(1)/FS(v)-3/EWG(v)/FSS-2

Po_4/Pe_5/Pq_4/Pae_2/P1_4

ACCESSION NR: AT501

TT/GS/GW AT5010231

UR/0000/64/000/000/0031/0036

48

AUTHOR: Shustova, L. N.

BH

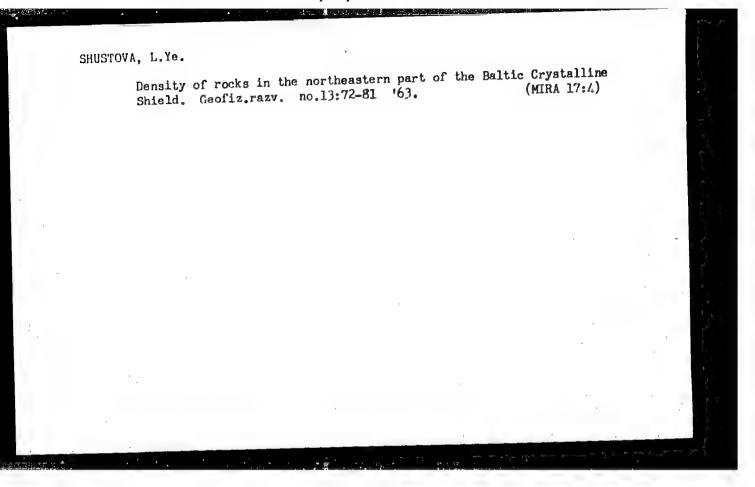
TITLE: The trajectory of the trace of the intersection between the optical axis and the surface of a celestial body

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Laboratoriya aerometodov. Spetsial'nyye voprosy fotogrammetrii (Special problems in photogrammetry). Moscow, Izd-vo Nauka, 1964, 31-36

TOPIC TAGS: optical axis, satellite photography, satellite camera inclination, weather satellite, satellite optics, satellite orientation

ABSTRACT: Depending on the orientation of the optical axis of a narrow-angle camera, a satellite may photograph different regions of a celestial body from otherwise Identical orbits. Such a circumstance may partially explain the change in optical axis during proposed picture-taking from the Nimbus weather satellites as compared with the Tiros satellites (K. Ya. Kondrat'yev, Meteorologicheskiye sputniki, Gidrometeoizdat, M., 1963). Consequently, the determination of the trajectories of the trace of the intersections between optical axes and the surface of celestial bodies is of considerable interest. The author solves the problem by assuming that the orientation of the optical axis coincides ideally with a given Card 1/2

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TSIRUL'NIKOVA, I.Ya.; SHUSTOVA, L.Ye.; POROTOVA, G.A.

Deep-seated formations in the Pechenga structural zone according to geophysical data. Zap. IGI 46 no.2:14-16 (MIRA 17:6)

163.

The Bothmia-Kandalaksha zone of a deep-laying trough in the earth's crust in the central part of the Baltic Shield. Dokl.

AN SSSR 148 no.22418-419 Ja *63.

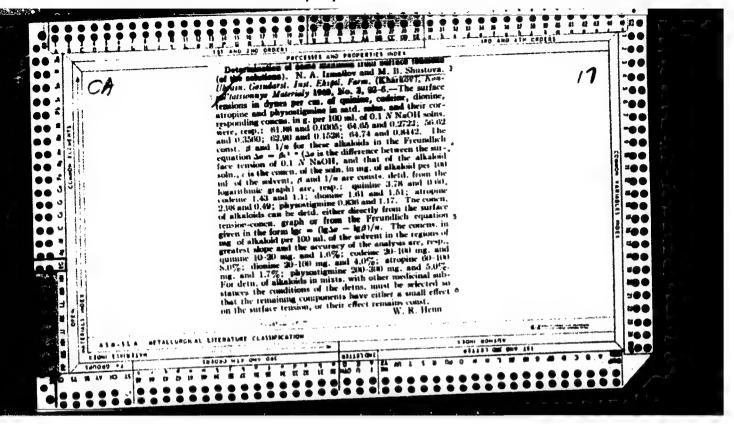
1. Leningradskiy goenyy institut im. G.V. Plekhanova. Predstavleno akademikom A.A. Polkanovym.

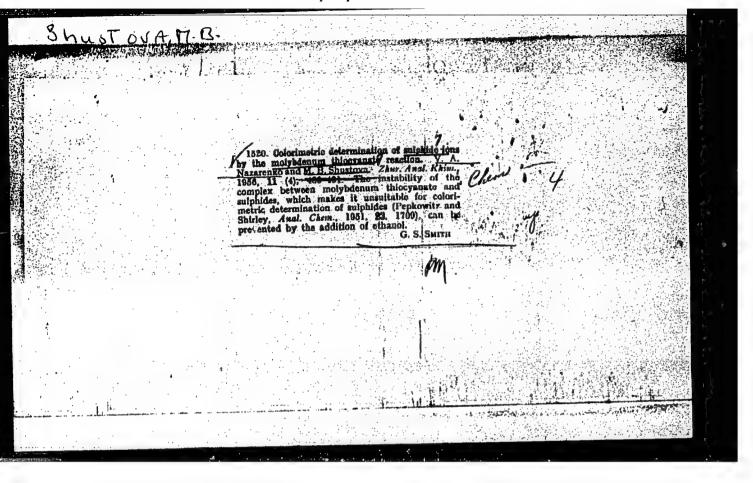
(Bothmia Gulf region—Geology, Structural)

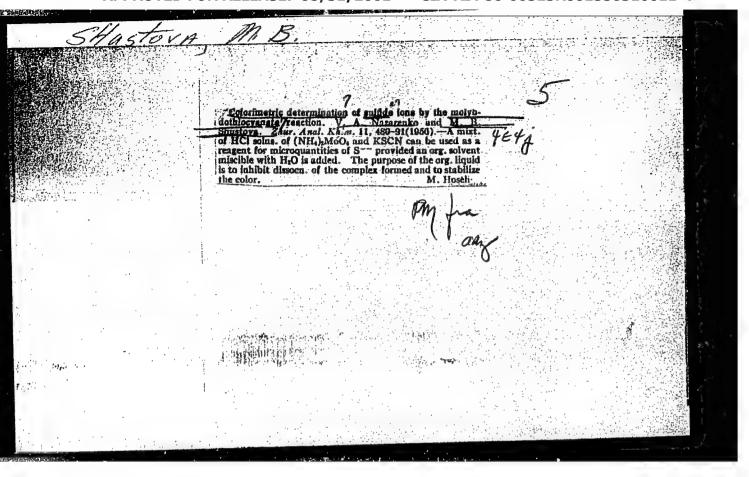
(Kandalaksha Bay region—Geology, Structural)

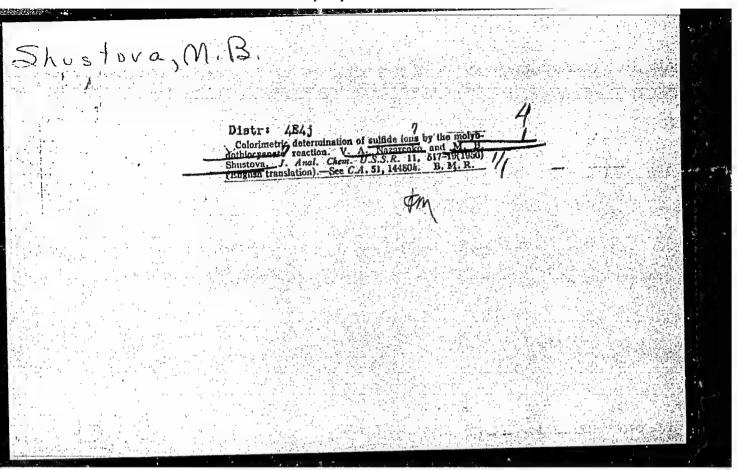
EAT(I)/FCC L 05341-67 UR/0215/66/000/005/0047/0057 ACC NR: AP7000236 SOURCE CODE: AUTHOR: Shustova, L. Ye. ORG: Western Geophysical Trust (Zapadnyy geofizicheskiy trest) TITLE: Deep structure of the Baltic shield determined from geophysical investigations Sovetskaya geologiya, no. 5, 1966, 47-57 SOURCE: TOPIC TAGS: seismic prospecting, gravimetric survey ABSTRACT: This is a summary of geophysical investigations carried out on the Baltic shield, both within the USSR and abroad. Accordingly, the author has made use of data from seismic, gravimetric and aeromagnetic investigations, aerial electrical prospecting, and other types of surveys for presenting a composite picture of current information on the shield. Figure 1 is a map of rock densities; Figure 2 is a gravimetric map; Figure 3 shows a map of crustal thickness; Figure 4 is a map of its block structure; Figure 5 is a map showing the rate of recent uplift of the shield; Figure 7 shows the block structure of the "granite" layer. The velocities of elastic waves in this area are constant to a depth of 5-8 km and therefore it is assumed that rock density remains constant to this depth. Beginning at 5-8 km the velocities increase to 6.5-7.0 km/sec, a value constant to a depth of 35-40 km. The density in the interval from 5-8 to 35-40 km is reckoned at 2.85-2.95 g/cm3. 1/2 Card

ACC NR: AP7000236 The density of subcrustal matter is considered constant 3.3 g/cm ³ . The crust within the Baltic shield consists of two principal layers: an upper, or "granite" layer (to a depth of 5-8 km), characterized by a nonuniform composition, and a lower, or "basalt" layer, with a uniform composition and more basic in character. Orig. art. has: 7 fluges. [JPRS: 37.658])	
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ShustouA, Mils

AUTHORS:

Nazarenko, V.A., Shustova, M.B.

32-11-3/60

TITLE:

Analysis of Pure Metals. Determination of the Tantalum Content in Ziroonium and Niobium (Analis ohistykh metallov. Opredeleniye primesi

tantala v tsirkonii i niobii)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1283-1286 (USSR)

ABSTRACT:

For the purpose of determining the tantalum content by the calorimetric method the derivatives of 2, 3, 7-trioxide-6-fluorine are recommended and dimethyl fluoron is particularly recommended. Tantalum in connection with dimethyl fluoron results in a bright red coloring. Without a content of tantalum the solution is yellow. Determination of the tantalum content at its minimum 3 f is carried out from the 10 ml of the solution, which is decinormal with respect to hydrochloric acid, and 0.4% ammonium oxalate and contains 1 ml of the 1% gelatin solution. The following solutions are recommended for the processes of determination: 1. Mixtures of acids: a) 4-m nitric acid + 1- m hydrofluoric acid (70 ml of the 11-nitric acid + 118 ml water + 12 ml 40% hydrofluoric acid); b) 4-m with respect to hydrochloric acid + 2-m according to fluoric acid 70 ml of the 11-n nitric acid + 106 ml of water + 24 ml of 40% fluoric acid). 2. Dimethylfluoron:

Card 1/2

32-11-3/60

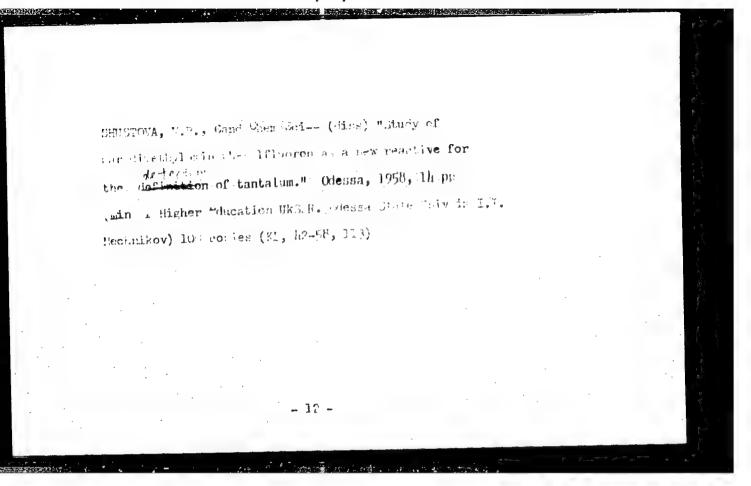
Analysis of Pure Metals. Determination of the Tantalum Content in Ziroonium and Nichium

- 0.05% solution (50 mg + 0.5 ml of the 6-n nitric soid solution + 50 ml of 96% spirit). 3. Dilution solution: 10 g potassium pyrosulphate melt + 100 ml of the 4% solution of the ammonium oxalate + 250 ml water neutralized to slightly yellow by means of caustic potash. To this 50 ml of 2-n hydrochloric acid is added, and the entire mixture is dissolved in water up to 1000 ml. 4. Rinsing solution for extraction: 30 ml acid mixture as 1b + 20 ml ammonium sulphate solution + 20 ml isobutanol + 20 ml acetone. 5. Tantalum standard solution: 25 mg tantalum is dissolved in the mixture of fluoric- and nitric acid, after which 1 ml of sulphoric acid is added, and the whole is vaporised and then melted together with 2.5 g potassium pyrosulphate. The melt is dissolved in ammonium oxalate up to 250 ml. The paper then describes the process of determining the tantalum content in zirconium and in nicbium. There are 4 tables.

AVAILABLE:

Library of Congress

Card 2/2



5(2), 5(4)

AUTHORS: Nazarenko, V. A., Shustova, M. E.

507/32-24-11-9/37

TITLE:

Fluorometric Determination of Sulfate Ions and Spectrophotometric Determination of Thorium Using Derivatives of Trioxy-fluoron (Fluorometricheskoye opredeleniye sul'fat-ionov i spektrofotometricheskoye opredeleniye toriya s pomoshch'yu

proizvodnykh trioksifluorona)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 11, pp 1344-1346

(USSR)

ABSTRACT:

Compounds such as the 9-(o-oxy-phenyl), 9-trichloro-methyl, and 9-propyl-2,3,7-trioxyfluorons can be used as complex-forming reagents for barium, thorium, and zirconium. Solutions of the unreacted fluorons, however, exhibit a tendency to fluoresce. Among the various trioxyfluoron derivatives available for the determinations mentioned in the title the 9-(o-oxy-phenyl)-trioxyfluoron (Salicylfluoron) appears to be the most suitable.

This compound forms a red complex with thorium in weakly acidic medium (pH > 2). The maximum light absorption of this complex lies at 500-530 m μ (pH=4.4). The ratio of thorium to fluoron in the complex is 1:2. The measurements were carried

Card 1/3

sev/32-24-11-9/37

Fluorometric Determination of Sulfate Ions and Spectrophotometric Determination of Thorium Using Derivatives of Trioxyfluoron

out on a Pulfrich (Pul'frikh) photometer after 24 hours on mixtures containing 0.4.10-5 to 3.6.10-5 moles Th and $3.6.10^{-5}$ to $0.4.10^{-5}$ moles salicylfluoron in 20% ethanol. The molar extinction coefficient of the salicylfluoron complex with thorium was found to be 26,000 at pH=4.4, 530 m m and using 0.3-1.0.10-5 moles Th. The reaction obeys Beer's (Ber) Law. The determination of sulfate ion with salicylfluoronate is based on the formation of a sulfate complex which forms with the thorium complex, and according to the fluorescence of the free unreacted salicylfluoron the concentration of SO_A -ion can be determined. For the determination of microgram quantities of sulfate ion solutions of 2.10⁻⁴ molar thorium nitrate and 5.10⁻⁵ molar salicylfluoron are prepared. For quantitative determinations it is necessary to prepare a series of standard solutions, for example, with 0-0.25-0.5-1.0-1.5-2.0 r SO_{Δ}²⁻ sulfate ion. There are 2 figures and 5 references, 2 of which

Card 2/3

SOV/32-24-11-9/37

Fluorometric Determination of Sulfate Ions and Spectrophotometric Determination of Thorium Using Derivatives of Trioxyfluoron

are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk USSR (Institute of General and Inorganic Chemistry, AS UkrSSR)

Card 3/3

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5/0/2/60/026/012/002/036 B020/B056

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1273, 1350 only

Shustova, M. B., Nazarenko, V. A.

AUTHORS: And the second second

Analysis of Pure Metals. Determination of Vanadium TITLE:

Impurities in Titanium

Zavodskaya laboratoriya, 1960, Vol. 26, No. 12, pp. 1339-1341 PERIODICAL:

TEXT: In the present paper, the use of a method of determining vanadium quantities of less than one microgram (Ref. 1), which is based upon the catalytic acceleration of the aniline oxidation by potassium chlorate in the presence of oxine as activator (Ref. 2), is demonstrated by determining microquantities of vanadium in titanium. Under the conditions mentioned, the solution becomes yellowish-brown in the presence of vanadium, while otherwise the solution is light-yellow. The sensitivity of the reaction is increased by heating, but after a longer period of heating, dim solutions are formed, which cannot be photometrized. The reaction product may be extracted by means of organic solvents (ethyl or amyl acetates, isoamyl alcohol), in which case the extracts are brownish-red. During extraction of the reaction products, the detection limit is 0.01 g -vanadium in 100 ml

Card 1/3

Analysis of Pure Metals. Determination of Vanadium Impurities in Titanium

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solution (maximum dilution 1: 10 10). The light absorption curves of the ethyl acetate extracts obtained in the manner described in the absence and presence of 0.2 + V are given in Fig. 1. They were recorded at the optimum wave length of 390 mm. Fig. 2 shows the dependence of the optical density of the extracts on the quantity of vanadium during measurement in relation to the ethyl acetate by means of the spectrophotometer 3 -4 (SF-4) at 390 mm and by means of the horizontal photometer 4MC-56 (FMS-56) with the light filter MC -47 (MS-47) at 465 mp. Larger quantities of titanium disturb, because they bind oxine; in quantities of up to 500 %, titanium may be masked by the addition of ammonium tartrate. In this case the sensitivity is reduced to one fifth. Up to 500% iron may be masked by the addition of pyrophosphate without disturbing; also platinum does not disturb. The best results were obtained in the extraction with isosmyl alcohol. In this case vanadium can be quantitatively extracted at pH=5. Here, ammonium tartrate must, however, be added, which binds titanium to a complex; otherwise, the latter is precipitated. The results obtained show that by this method up to 5.10-5% V in 0.1 g titanium may be determined (Table). The method is not suited for analysis of titanium, which contains some tenths or hundredths of molybdenum. Molybdenum in quantities lower than

Card 2/3

37704

Analysis of Pure Metals. Determination of Vanadium Impurities in Titanium

::/032/60/026/012/002/036 8020/8056

0.001% does not disturb the determination of vanadium. There are 2 figures, 1 table, and 7 references: 4 Soviet, 1 Austrian, and 2 Japanese.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk USSR (Institute of General and Inorganic Chemistry of the Academy of Sciences of the UkrSSR)

Card 3/3

1201

CIA-RDP86-00513R001550310011-4 "APPROVED FOR RELEASE: 08/31/2001 5/137/52/000/053/11" 4160/A:G1 Determination of tentalum in lean ores by colorimetric means Referativnyy zhurnal, Metallurgiya, no. 3, 1962. 3, abstract 3 k 9.

Referativnyy zhurnal, metody issled. rud redk. I rasseynn.

("Khim. fiz.-khim. i spektr. metody issled." Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 3, abstract 3 K 9

Referativnyy zhurnal, Metallurgiya, no. 3, rud reuk. 1 rasseyun.

Spektr. metody 1561, 83 - 91)

Gosgeoltekhizdat, 1961, 83 - 91)

elementov", Moscow, Gosgeoltekhizdat, 1961, 83 - 91) Nazarenko, V. A.; Shustova, M. B. It has been established that all trioxyfluoron derivatives can be sensitive and specific one of them is TEXT:

It has been established that all trioxyfluoron derivatives can be fluoron derivatives can be specific one of them is and specific one that all trioxyfluoron one of them one of the one of them one of them one of the on The initial Ta water base slight calcination, then again K persuifate the radical is supplemented with 500 The melt alized for which you have to dryness, it is 600 of the first of the supplemented with the supplemented with 500 The melt alized for which you have to dryness, it is 600 of the first of the supplemented with the dryness. With it at 600 of the supplemented with the appearance of a slightly noticeable with the dryness. With it at 100 of 50 ml the supplemented with appearance of a slightly noticeable with the appearance of a slightly noticeable transferred into a 50 ml the appearance of a slightly normal with it at 100 of 50 ml the appearance of a slightly normal with it at 100 of 50 ml the appearance of a slightly normal with provided the supplementation of the supplementation and fused with provided the supplementation and supplementation of the supplementation and supplementation AUTHORS: TITLE: PERIODICAL: 0 hc tul int allon shake 530 mz 1 ml gt est (10 ml of the diluent, -out wi -cermination process is carriedcard 1/3 concomit. was separated from inhibiting and "acids" with tannin, from a 3 - 6 %

CIA-RDP86-00513R00155031001

APPROVED FOR RELEASE: 08/31/2001

S/032/61/027/001/002/037 B017/B054

AUTHORS:

Nazarenko, V. A. and Shustova, M. B.

TITLE:

Determination of Iodine Microimpurities in Elementary

Silicon

PERIODICAL:

Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, pp. 15-16

TEXT: A method was developed to determine iodine microimpurities in silicon. The impurities are extracted with benzene after oxidation of the iodide to elementary iodine. The course of analysis is indicated: 1 or 0.5 g of finely ground silicon is dissolved in a 20-ml 3 N sodium hydroxide solution which is heated simultaneously. 5 ml of sulfuric acid 1:1 is added to the solution, and water is added until an amount of 150 ml is reached. The sample is placed in a separating funnel, mixed with sodium nitrite, and twice extracted with benzene. The iodine content is determined colorimetrically. Results are given in a table. By this method it is possible to determine 0.5 % of iodine in 1 g of silicon, i.e., 5 . 10-5%. This method is mainly intended for semiconductor silicon which contains small iodine impurities after production by the iodide method. There is 1 Card 1/2

Determination of Iodine Microimpurities in Elementary Silicon

S/032/61/027/001/002/037 B017/B054

table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk

USSR (Institute of General and Inorganic Chemistry, Academy

of Sciences UkrSSR)

Card 2/2

NAZAKENKO, V.A.; STUSTOVA, M.B.; RAVITSKAYA, R.V.; NIKOROVA, M.P.

Determination of calcium, aluminum, and chromium impurities in antimony. Zav.lab. 28 no.5:537-539 162. (MIRA 15:6)

1. Institut obshchey i meorganicheskoy antwii AM USSR. (Antimony-Analysis) (Metals-Analysis)

-s/032/62/028/006/002/025 B110/3101

Kamarenko, V. A., Shustova, M. B., Shitareva, G. G., Yagnyatinskaya, G. Ya., and Ravitskaya, R. :UTHORS:

Determination of impurities in titanium

PURICUICAL: Zavodskaya laboratoriya, v. 28, no. 6, 1962, 645 - 648

The determination of the contents of Ta, Al, P, Si, Mg, Cr, Mn, Fe, ani Ni in Ti with an accuracy of 0.0001% is described. (1) Tantalum is photosetrically determined with dimethyl fluorone (50 mg in 100 ml 96% C_2 H_ON and 0.5 ml 6 N HCl) after extraction as a fluorine complex with an ace tone-isobutanol mixture. (2) Manganese is determined colorimetrically (HMC3, 43704, and potassium periodate) as manganic acid after extraction in the form of diethyl dithiocarbaminate. (3) Iron is determined colorimetrically as thiocyanate after extraction of the oxinate (5 ml 1% oxine solution in 1 % CH_COCH) using chloroform in the presence of H2O2 at pH>8 (:) Nickelis colorimetrically determined with dimethyl glyoxime after the Card 1/2

s/078/62/007/012/010/022 B144/B180

AUTHORS:

Card 1/2

Nazarenko, V. A., Lebedeva, N. V., Biryuk, Ye. A., Shustova, M. B.

Complex compounds of multivalence metals with trioxyfluorones

TITLE:

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 12, 1962, 2731-2738

TEXT: The complex formation between GeO2, ZrOCl2 or SbCl3 and phenyl fluorone and between Sc2(SO4)3 and propyl fluorone was studied spectroscopically in acid media after stabilization with gelatine to ascertain whether the metal ion substitutes two H atoms in the diphenol or one H atom in the o-hydroxyquinone. A new scheme, based on the solubility product, is given for the evaluation of the spectrophotometric data; this was necessary because of the low solubility of the complexes. The complex formation with Zr was studied in 0.2 - 0.8 N HCl and showed that only a 1:2 complex forms (optimum 0.2 - 0.3 N HCl). This was confirmed by both the isomolar series and the molar ratios. The Zr complex is thus consistent with other Me Tv trihydroxy fluorone complexes. A study of the change in optical density as a function of the pH showed that only one H

CIA-RDP86-00513R001550310011-4" APPROVED FOR RELEASE: 08/31/2001

MAZAGESKO, W.A.; DEBEDEVA, M.V.; SHUSTOVA, M.B.; BIRYUK, Ye.a.

Trihydroxyfi mones. Metod.poluch.khim.reak. I prepar. no. 7:
(MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Cdessa.

SHUSTOVA, M.B.; NAZARENKO, V.A.

Trihydroxyfluorones as reagents for the photometric determination of molybdenum. Zhur.anal.khim. 18 no.8:964-971 Ag '63. (MIRA 16:12)

1. Institute of General and Inorganic Chemistry, Academy of Sciences, Ukrainian S.S.R., Laboratories in Odessa.

L 15203-65 EWT(m)/EPF(n)-2/EPR/EWP(b)
ASD(r)-2/ASD(m)-3/AS(mp)-2 JD/JG/MLK

Ps-4/Pu-4 SSD/ASI

SSD/ASD(a)-5/AFWL/ESD(gs)/

ACCESSION NR: AT4048100

8/0000/64/000/000/0150/0153

AUTHOR: Nazarenko, V.A., Shustova, M.B.

BH

TITLE: Photometric determination of microquantities of molybdenum in high-melting metals

SOURCE: Spektral'ny*ye i khimicheskiye metody* analiza materialov (Spectral and chemical methods of materials analysis); sbornik metodik, Moscow, Izd-vo Metallurgiya, 1964, 150-153

TOPIC TAGS: molybdenum, diethyldithiocarbamate, radiometry, quantitative analysis, colorimetric analysis, refractory metal, nitrophenylfluorone

ABSTRACT: For the separation of microquantities of molybdenum from difficulty fusible metals such as Ti, Zr, V, Nb, Ta and W, extraction with a chloroform solution of diethyldithiocarbamic acid was found to be more specific than methods based on molybdenum extraction after the addition of sodium diethyldithiocarbamate to a 1 N hydrochloric acid solution. The percentage of molybdenum extracted, determined radiometrically using Mo⁹⁹ and photometrically with orthonitrophenylfluorone, amounts to 98% with extraction from 6 N H₂SO₄ using phases of equal volume. Citric acid was used to retain the niobic, tangstic and other acids in solution. Vanadium was first reduced

L-15203-65

ACCESSION NR: AT4048100

with tartrate to the tetravalent form. For the determination of molybdenum, its reaction with orthonitrophenylfluorone was used, the synthesis of which is described. The extraction of molybdenum is also described. This method makes it possible to determine $5 \times 10^{-2} - 2 \times 10^{-5}\%$ Mo in Ti, Zr, Hf, Nb and Ta, and $3 \times 10^{-5}\%$ Mo in tungsten. The analytical results for the above-mentioned metals are tabulated. Orig. art. has: 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk UkrSSR <u>Institute</u> of General and Inorganic Chemistry, Academy of Sciences Ukr. SSR)

SUBMITTED: 12Feb64

ENCL: 00

SUB CODE: MM, IC.

NO REF SOV: 003

OTHER: 002

Card 2/2

L 52279-65 EWT(m)/EPF(n)-2/EWG(m)/EPR/EWP(t)/EWP(b) Ps-4/Pu-4 INP(c)

JD/JG

ACCESSION NR: AT5012673

UR/2513/65/015/000/0111/0120 2

AUTHOR: Shustova, M.B.

TITLE: Extraction of molybdenum in the form of the diethyldithiocarbamate complex

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy, v. 15, 1965. Metody kontsentrirovaniya veshchestv v analiticheskoy khimii (Methods of concentrating substances in analytical chemistry), /11-120

TOPIC TAGS: molybdenum extraction molybdenum determination, refractory metal analysis, colorimetric analysis, diethyldithiocarbamate complex, orthonitrophenyl-fluorone

ABSTRACT: The author studied the stability of chloroform solutions of DDC acid (diethyldithiocarbamic acid), the absorption spectra of chloroform solutions of DDC acid and its complexes with molybdenum, and the dependence of the optical density of the extracts on the concentration of sulfuric acid in the aqueous phase and on the molybdenum concentration. The measurements were made with an SF-4 spectrophotometer. It was found that the concentration of chloroform solutions of DDC acid remains constant for 5 days if they are kept at a temperature not above 2C. Maximum

Card 1/2

L 52279-65

ACCESSION NR: AT5012673

optical density is displayed by the DDC complex of molybdenum extracted from 1 N sulfuric acid. A decrease in the optical density of the chloroform solutions of DDC complexes is due to the reduction of molybdenum by DDC acid to the pentavalent state. The Mo-DDC complex was found to have the composition MoO₂(C₄H₁₀NCS₂)₂, this being in agreement with the findings of other authors. The formation of this complex was used by the author to separate molybdenum prior to its determination in refractory metals — Ta, Nb, Ti, Zr, Hf, V, and W; the chloroform extract of the DDC-Mo complex was evaporated, the organic substances were decomposed by heating, and molybdenum was determined with orthonitrophenylfluorone. Orig. art. has: 6 figures, 2 tables, and 1 formula.

ASSOCIATION: Komissiya po analiticheskoy khimii, AN SSSR (Commission on Analytical Chemistry, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC LIC

NO REF SOV: 007

OTHER: 005

gah 2/2.

ACC NR: AP6010053

SOURCE COLE: UR/0032/66/032/003/0267/0269

AUTHOR: Nazarenko, V. A.; Biryuk, Ye. A.; Shustova, M. B.; Shitareva, G. G.; 5 Vinkovetskaya, S. Ya.; Flyantikova, G. V.

ORG: Institute of General and Inorganic Chemistry, AN UkrSSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR)

TITLE: Determination of impurities in tantalum

SOURCE: Zavodskaya laboratoriya, v. 32, no. 3, 1966, 267-269

TOPIC TAGS: tantalum, impurity level, photometric analysis, iron, copper, tin, lead

ABSTRACT: The photometric determination of impurities in tantalum is described. It has a sensitivity of 10-4% and requires all the precautionary measures used during the analysis of high-purity metals, including the running of blank experiments under conditions of sample analysis. The photometric determination is preceded by extraction of the analyzed element (Pb, Cu, Fe, Ni, or Sn) from the tantalum sample, by extraction during the determination of tantalum in Zr, Bi, and Zn in the form of a fluortantalate complex, and by determination of chromium after separation of the tantalum by hydolysis. Lead and cadmium are determined by dithizone after extraction of the lead and cadmium (in the form of diethyldithiocarbaminates) from acid medium with chloroform. The interfering effect of other elements is eliminated by washing the extract with alkaline

Card 1/2

UDC: 543.7

ACC NR: AP6010053

solution (pH 12) containing cyanide, tartrate, and diethyldithicarbaminate. The rhodanide method, with extraction of the dyed complex, is used for the determination of iron. Copper is determined by dithizone. The separation of iron and copper from tantalum is made by extraction of their diethyldithicarbaminate salts. Tin is determined photometrically with paranitrophenylfluorone after extraction of the tin from the sulfate medium with chloroform in the form of diethyldithicarbaminate. This is made similarly to the determination of tin in niobium (N. B. Lebedeva, V. A. Nazarenko, Trudy Komissii po anaticheskoy khimii, Izd. AN SSSR, XI, 287, 1960). It is convenient to determine some impurities after separating the tantalum from them. This can be done by the extraction of the fluorotantalum complex with ketones (e.g., cyclohexanone) from its solution in HF and H₂NO₃ or H₂SO₄, while Zr, Ti, Bi, and Zn can be determined in the aqueous phase: Zr with phenylfluorone, Bi by the iodide-ketone method, and Zn with dithizone. Chromium is determined with diphenylcarbazide after separation of tantalum by hydrolysis.

SUB CODE: 11,07/ SUBM DATE: none/ ORIG REF: 008

Card 2/2 hs

RAYKHSHTAT, G.N.; SHAPIRO, A.A.; SHUSTOVA, N.G.

Outbreak of whooping cough in a kindergarten. Zhur. mikrobiol., epid.
i immun. 41 no.9:142 S '64.

l. Sanitarno-epidemiologicheskaya stantsiya Sverdlovskogo rayona Moskvy.

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550310011-4 L 15673-66 EWT(m)/EWP(w)/T/EWP(t)/EWP(b) IJP(c) ACC NR: AP6000196 SOURCE CODE: UR/0056/65/049/005/1431/1434 AUTHOR: Motulevich, G. P.; Shubin, A. A.; Shustova, Q. P. ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Institut fiziki AN SSSR) TITLE: The effect of periodic structure on the optical properties of aluminum SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. 1431-1434 TOPIC TAGS: aluminum, optic property, refractive index, ir phenomenon, skin effect, conduction electron, electron collision, metal crystal, metal crystallization, light polarization electron interaction. Periodic system
ABSTRACT: The authors measured the real and imaginary parts of the refractive index of crystalline and amorphous aluminum in the infrared region. In both cases, layers of 99.99% pure aluminum were evaporated in vacuum on a glass substrate. A crystalline or amorphous structure was obtained by varying the cooling rate. The measurements were made by a polarization technique, using four-color reflection of light from the investigated surface, as described by the authors earlier (Optika i spektroskopiya, v. 3, 361, 1957). The measurements have shown that the skin effect exhibits a slightly anomalous character in crystalline aluminum at room temperature, but in amorphous aluminum it is almost normal. The concentration of the conduction elec-

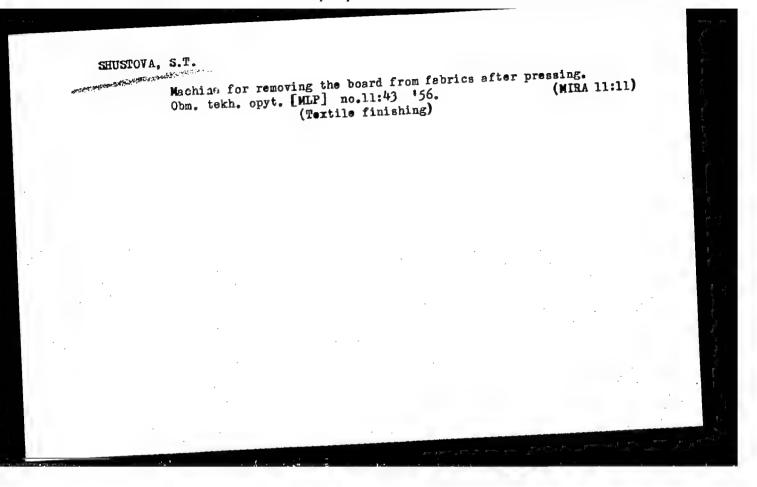
trons and the effective collision frequency of the electrons, which determine the refractive index, are calculated, and it is shown that on going from crystalline to amorphous layers, the conduction electron concentration increases from approximately

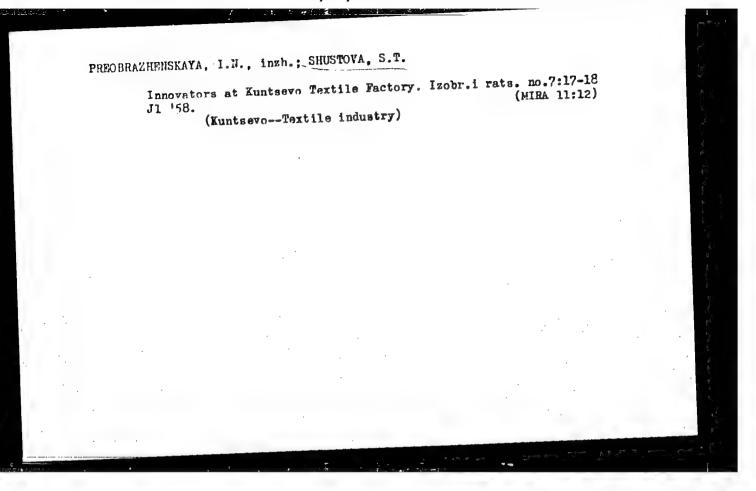
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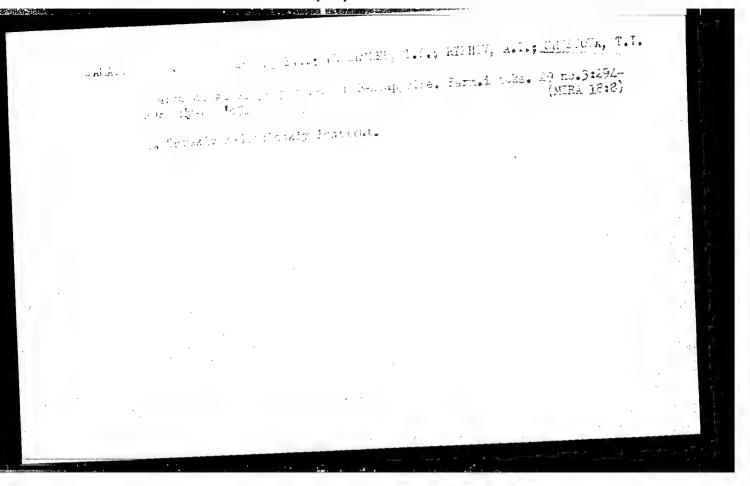
CIA-RDP86-00513R001550310011-4

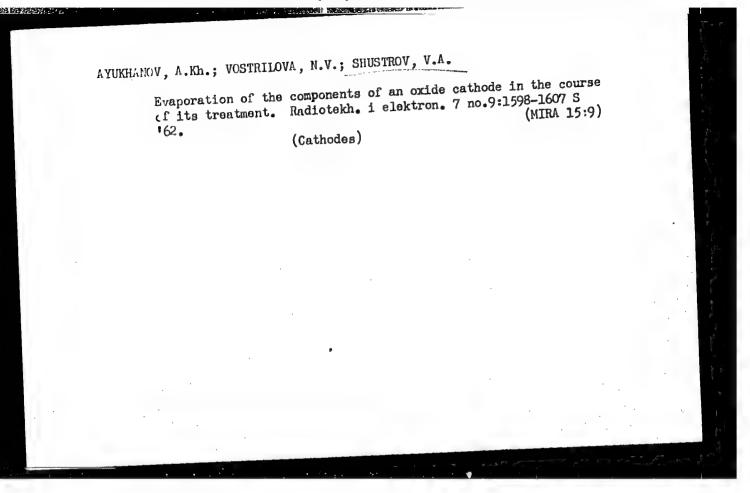




EwT(d)/EwT(m)/EwP(w)/EwP(o)/EwA(d)/EwP(w)/T/EwP(t)/EwP(k)/EwP(1)/ETC(m)=6L 20597-66 SOURCE CODE: UR/0096/66/000/004/0010/0013 ACC NR: AP6009808 JD AUTHOR: Elepko, V. F.; Shustova, T. A. (Engineer) ORG: All-Union Heat Engineering Institute (Vsesoyuznyy teplotekhnickeskiy institut) Reliability of austenitic steels in power units operating with 650C and TITLE: 315 atm steam SOURCE: Teploenergetika, no. 4, 1966, 10-13 TOPIC TAGS: austenitic steel, heat resistant steel, tube steel, steel property ABSTRACT: Heat-resistant austenitic steels EP17 and EP184 (both used in pipelines of the Kashira power station operating with steam 650C and 315 atm) were tested for the effect of prolonged aging (up to 15,000 hr) at 550, 650, and 700C. Both steels, expecially EP17, were found to undergo significant structural changes which affected their mechanical properties. At exposures up to 5000 hr, the structural changes are limited to the precipitation of Cr23C6 carbide and Fe2W intermetallic compound, with the precipitation of the latter becoming especially intensive after 3000, 5000, and 10,000 hr at 700, 650, and 550C, respectively. The precipitation of both phases continued for the entire test period (15,000 hr). After 10,000 hr, small amounts of Sigma-phase were observed and the notch toughness of both steels dropped from the original 23-27 mkg/cm2 to 8-10 mkg/cm2, regardless of the aging temperature. longed aging also lowered the rupture strength, especially that of EP17 steel. UDC: 669.15-194:621.772.4.001.45 1/2

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ture which then aging. It is a especially EPI	-5000 hr, both stondisappears completed that in a release reliable.	etely (Erlo4)	the Show	e condition	s both stee	ls, and
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ARSENT'YEV, A.I.; YUMATOV, B.P., redaktor; SHUSTOVA, V.I., redaktor;
MIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Marthwork by means of tractor and scraper units] Razrabotka
mestorozhdenii traktorno-skrepernymi agregatami. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1955. 135 p.

(Marthwork)

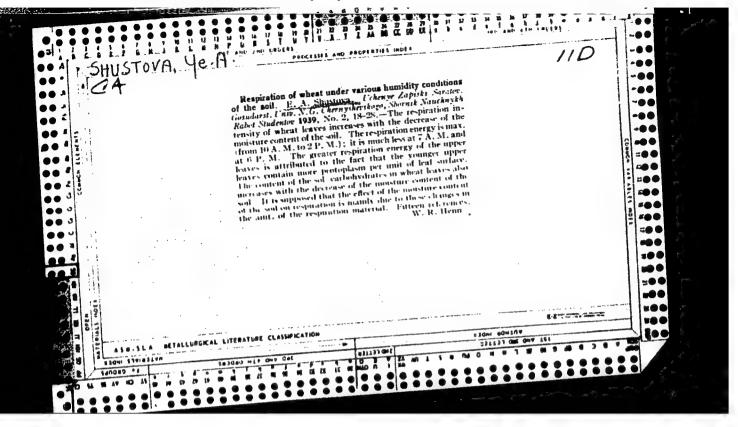
(Marthwork)

SNISARENKO, L.I.; CHIVIR'OV, O.M. [Chyvyr'ov, O.M.]; POZNYAKOVA, L.Ye.

[Pozniakova, L.IE.]; SHUSTOVA, V.P.

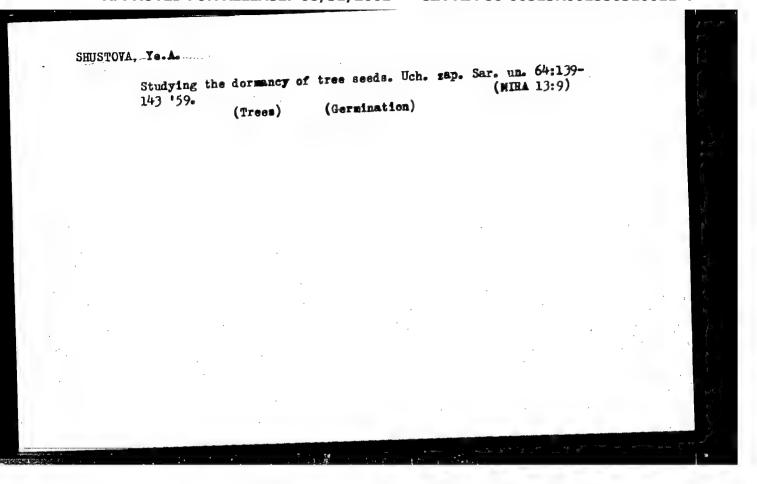
Sanitary and hygienic work conditions in the tin can shops
of canned food enterprises. Khar. prom. no.4:34-36 O-D '65.

(MIRA 18:12)



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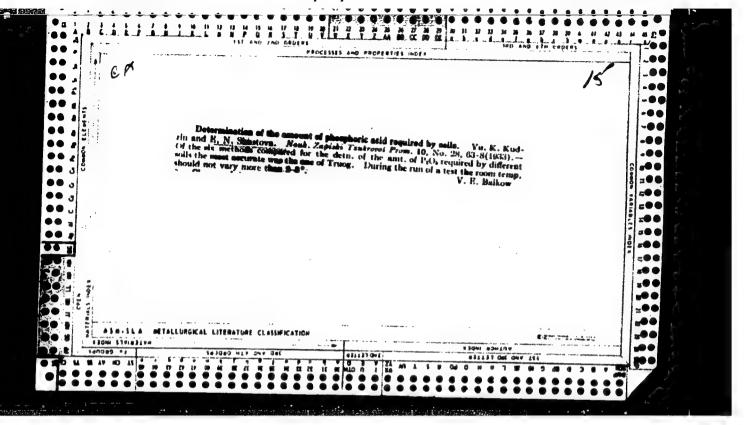
CIA-RDP86-00513R001550310011-4

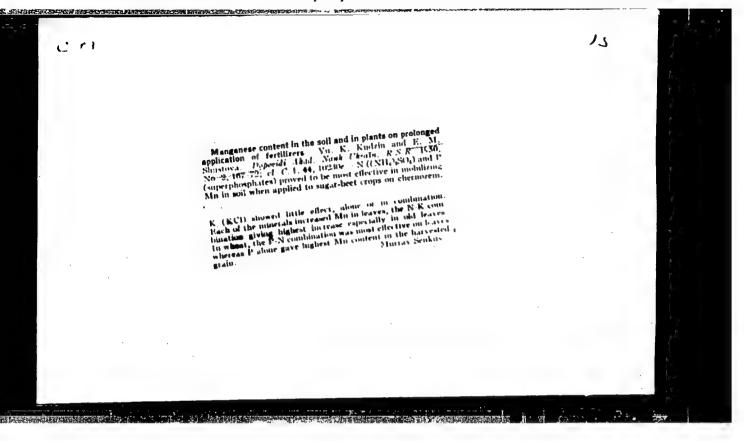
SHUSTOVA, Ye. A.

Cand Biol Sci - (diss) "Explanation of the causes for slow growth of seeds (fruit) of several tree varieties." /Kazan'/, 1961.

of seeds (fruit) of Higher and Secondary Specialist Education 18 pp; (Ministry of Higher and Secondary State Univ imeni V. I. RSFSR, Kazan' Order of Labor Red Banner State Univ imeni V. I. Ul'yanov-Lenin); 180 copies; price: free; (KL, 10-61 sup, 211)

Ul'yanov-Lenin); 180 copies;



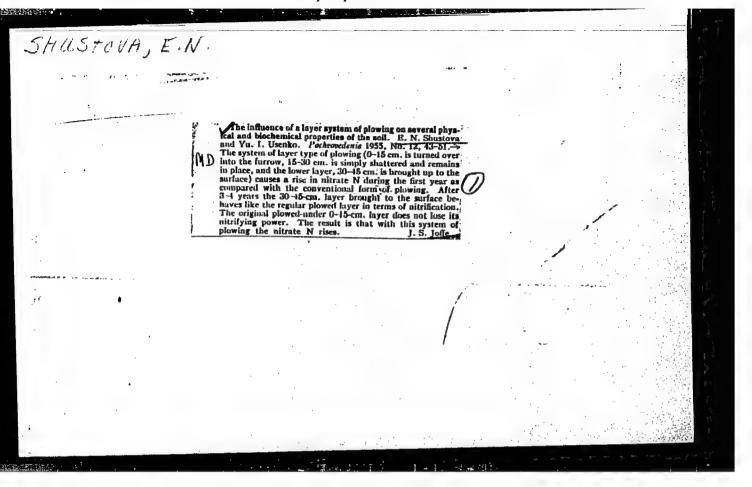


SHUSTOVA, Ye. N.

"Conditions of Phosonate and Calcium Nourishment of Sugar Beets During Crop Rotation." Sub 6 Dec 51, All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480. 9 May 55



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EWP(j)/EWT(m)/EWP(t)/ETI IJP(c) RM/JD/WB/GD L 28529-66 AT6013803 ACC NR: SOURCE CODE: UR/0000/65/000/000/0284/0295 (A) AUTHOR: Rozenfel'd, I. L.; Persiantseva, V. P.; Reyzin, B. L.; Shustova, Gavrish, N. M. ORG: none TITLE: Investigation of certain nitrobenzoic amine salts as corrosion inhibitors for ferrous and nonferrous metals 16 SOURCE: Korrowiya metallov i splavov (Corrosion of metals and alloys), no. 2. Moscow, Izd-vo Metallurgiya, 1965, 284-295 TOPIC TAGS: amine salt, corrosion inhibitor, ferrous metal, nonferrous metal ABSTRACT: The article presents the results of an investigation of the protective properties of certain inhibitors (nitro- and dinitrobenzoates) synthesized at the authors' laboratory; these properties were tested in natural as well as accelerated conditions involving cyclic and continuous exposure to moisture, with the aid of a specially developed device (Persiantseva, V. P., Rozenfel'd, I. L. Zavodskaya laboratoriya, 1958, 24, 7, 282). (The tests under natural conditions simulated the conditions under which metal products are stored in unheated warehouses and lasted for 21 months.) The inhibitors investigated were: hexamethyleneimine meta-3,2 nitrobenzoate, hexamethyleneimine ortho-nitrobenzoate, hexamethyleneimine 3,5-dinitrobenzoate, and piperidine 3,5-dinitrobenzoate. The coating of metal surface with Card 1/2

USSR/Medicine (Veterinary) - Tissue Therapy Apr 52

"Experience in the Use of Preparation ASD," F. A.
Shustovskiy

"Veterinariya" Vol XXIX, No 4, pp 49-51

The activity of ASD was tested by military-veterinary hospitals in various diseases on 138 animals.
Two types of ASD were applied intravenously, per Two types of ASD were applied intravenously, for os (for intestinal diseases), or externally (for the treatment of wounds). ASD was found to be an extremely effective tissue therapy prepn and stimulant.

ALICHKIN, S.L.; AGRINSKIY, N.I.; ANDREYEV, G.F.; RAKUMENKO, G.D.;
VOROITSOV, S.M.; VOYSTRIKOV, I.V.; GRADYUSHKO, G.M.; ZYKOV, A.V.
VOROITSOV, S.M.; VOYSTRIKOV, I.V.; GRADYUSHKO, G.M.; ZYKOV, A.V.
IVANOVYSEV, P.V.; KINDEG, M.YAL; KOVALEV, P.A.; KOZLOVSKIY, Y.S.V.
KORNIYENKO, A.P.; KOLYAKOV, Y.Y.; ORLOV, F.M.; OSTOSKIY, A.A.;
MEDUKIEV, I.D.; ROVIKOV, N.V.; ORLOV, F.M.; OSTOSKY, A.A.;
ORTSEV, V.P.; FENIONEHKO, A.M.; POLOZ, D.D.; PRITULIN, P.I.;
PETUKHOVSKIY, A.A.; ROGALEV, G.T.; RYBAK, P.Ya.; SULYAGIN, G.P.
TUKOV, R.A.; KHAVCHENKO, D.F.; CHERNETSKIY, T.I.; SHPAYER, N.M.
SHUSTOVSKIY, F.A.
NIKOLAI VASII'evich Spesivtsev. Veterinariia 35 no.2:96 F '58.
(MIRA 11:2)
(Spesivtsev, Nikolai Vasil'evich, 1901-1957)

SHUSTROV, A., kapitan 3 ranga

Decontamination of a ship. Veen. znan. 34 no.8:24-25 Ag (58.)

(Radieactive fallout) (Ships)

SHULTROV, A. K.

Ticks

Reaction of the ticks Ornithodorus lahorensis Neum. and Argas persicus F-W to certain environmental factors. Ent. ob. 31, No. 3, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

SHUSTROV, A.K.

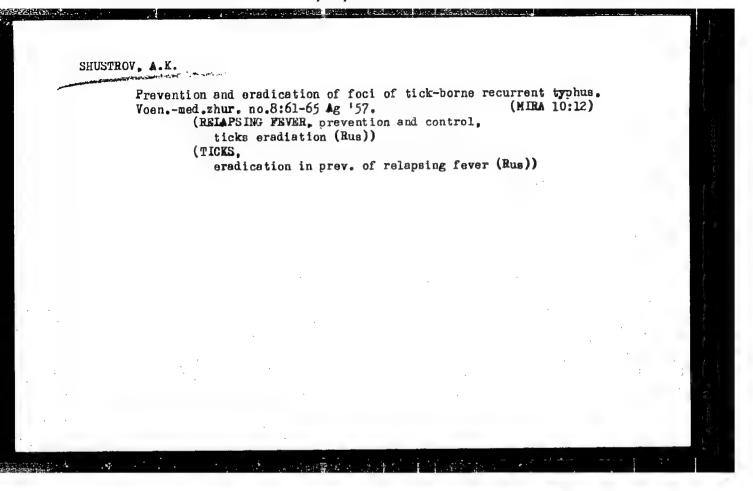
Distribution of ticks of the genus Ornithodorus. Zool.zhur.35 no.7: 986-989 Jl *56. (MIRA 9:9)

l.Kafedra obshchey biologii i parazitologii imeni akademika Ye.N.Pavlovskogo Voyenno-meditsinskoy akademii imeni S,M,Kireva. (Transcaucasia--Ticks)

SHUSTROV, A.K.

New data on the distribution of ticks of the genus Ornighodorus in the Northern Caucasus [with English summary in insert].Zool.zhur. 35 no.11:1733-1734 D *56. (MIRA 10:1)

1. Kafedra obshchey biologii i parasitologii imeni akademika Joen, Pavlovskogo Voyenno-meditsinskoy akademii imeni S.M. Kirova. (Groznyi Province-Ticks as carriers of disease)



SHUSTROV, A. K. and SALYAYEV, V. A.

"The Eiological Characteristics of Toxoplasma and the Methods of Frocucing an Antigen."

Tenth Conference on Parastiological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Leningrad

SHUSTROV, A. E., ALEKSANDROV, P. M., KLEVANKIN, V. N., BORISKIN, M. M., LIL'F, G. M., ZIL'BERMINTS, I. V., GUDNEVA, O. A., POPOV, S. C., DENISENKO, V. K., KOROVIN, F. T., GUTSEVICH, A. V., FEREFIL'YEV, P. P., FOGODINA, E. A., FEDOROV, M. N., SPRERANSKAYA, V. N. and SIYANITSKIY, F. M.

"The Effectiveness of a Chemical Method for Combatting Arthropods over Large Areas from Airplanes."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

(Leningrad - Moscow)

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SHUSTROV, A. K., GRABOVSKIY, B. S. and PERVOMATSKIY, G. S.

"Repellents and Ways of Using Them to Control Epidemics."

Tenth Conference on Parsitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

(Leningrad)

PERVOMAYSKIY, G.S.; SHUSTROV, A.K.

Apparatus for the study of repellents for ixedid ticks. Lab. delo 6 no.3:52-53 My-Je *60. (MIRA 13:7)

1. Kafedra obshchey biologii i parazitologii imeni Ye. E. Pavlovskogo Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(INSECT BAITS AND REPELLENTS)
(BIOLOGICAL LABORATORIES--APPARATUS AND SUPPLIES)

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Studying the biology of Toxoplasma and their preservability outside the organism. Trudy Inst.zool.AN Kasakh.SSR 12: 73-74 '60. (MIRA 13:7)

(Toxoplasmosis)

SHUSTROV, A. E. and YEGOROVA, A.P.

"On the Question of C. F. T. Specificity in Diagnosing Toxoplasmosis"

Vorrosy toksoplazmoza, report theses of a conference on toxoplasmosis, Foscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

SHOSTAUV, A. L.; SVYATURHINA, F.A. and ZHABOTIRSKIY, Yu. M.

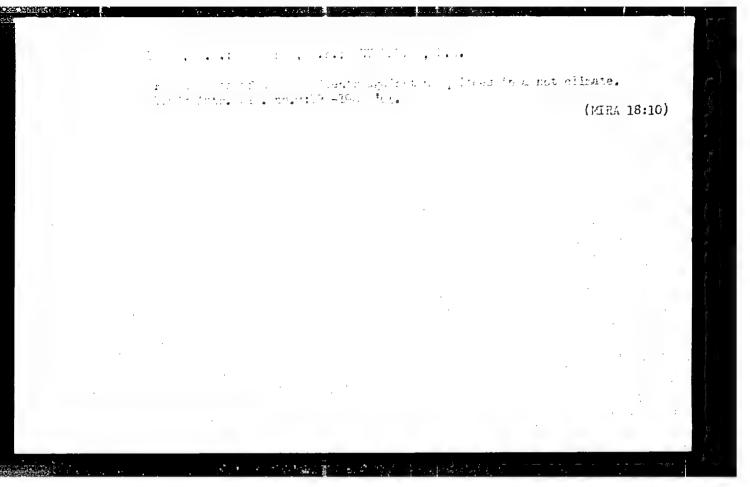
"Particular Features in the Multiplication of Toxoblesma in the Central Nervous System and the Formation of Pseudocysts"

Wonrosy toksoplazmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 april 1961, publ. by Inst Epidemiology and Microbiology im. B. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

ZHABOTHISKIY, Yu.M.; SVYATURHINA, O.A.; SHUSTROY, A.K.

Intracellular multiplication of Toxoplasma and formation of pseudocysts in the nervous system. Med. paraz. i paraz. bol. 2 no.6:671-675 N-D '63 (MIRA 18:1)

1. Iz otdela patologicheskoy anatomii (zav. - akademik li.M. Anichkov) Instituta eksperimente noy meditsiny AMI SSSR i kafedry s parazitologiyey imeni akademika Ye.M. Pavlovskogo (nachal nika - prof. G.S. Pervomayskiy) Voyenno-meditsinskiy ordena Lenina akademii imeni S.M. Kirova.



BYSTROV, V.D., SHUSTROV, A.K.

Ginophotomiorographic study of Tomoplasma gondii in a peritoneal excudate of white mice. Dokl. AN SUSR 165 no.5:1215-1216 D *65. (MIRA 19:1)

1. Submitted Pebruary 8, 1965.

FACC NR: AP7008115

SOURCE CODE: UR/0020/67/172/004/0835/0888

AUTHOR: Zandberg, E. Ya.; Rasulev, U. Kh.; Shustrov, B. N.

ORG: Physicotechnical Institute im. A. F. Ioffe, Acedemy of Sciences, SSSR (Fiziko-tekhnicheskiy institut Akademii nauk SSSR)

TITLE: Thermionic emission of positive ions of certain organic compounds from tungsten oxides

SOURCE: AN SSSR. Doklady, v. 172, no. 4, 1967, 885-888

TOPIC TAGS: thermionic emission, tungsten compound

ABSTRACT: Experiments were carried out on thermionic emission from tungsten oxides in a mass spectrometric apparatus in the presence of various organic compounds at 10-5 mm Hg. The following compounds produced thermions: diethylamine, phenol, aniline, trimethylhydrazine, acetone peroxide, several amino acids, and also acetic and formic acid. Most attention was devoted to the ionization of the first four compounds. The spectra of thermionic emission from tungsten oxides (at T \le 1100 °K) and tungsten (at T \ge 2000 °K) are tabulated. With the exception of aniline, ions representing products of surface reactions were observed in all cases. The results are senting products of surface reactions were observed in the formation of thermions by both in accord with previously advanced hypotheses on the formation of thermions by both catalytic dissociative ionization and formation of "heavy" ions in chemical surface reactions. The temperature dependence of thermionic currents from tungsten oxide

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TDC: 537.58 + 543.51

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ACC NR: AP7008115

surfaces was determined; the bell-jar shape of the I=f(T) curves obtained indicated the simultaneous occurrence of ionization and dissociation of the particles on the surface. In the case of aniline, the I=f(T) function was exponential. It is noted in conclusion that the thermal ionization of organic compounds on the surface of solids may be used as a method of studying processes of heterogeneous catalysis. Authors thank N. I. Ionov for discussing the results and I. N. Bakulin for his assistance. The paper was presented by Academician Konstantinov, B. P., 13 Apr 66. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 11Apr66/ ORIG REF: 007/ OTH REF: 006

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AUTHOR: TITLE:

57-6-29/36 MALIYRIN, B.A., SHUSTROV, B.H. Mass-Spectrometer with Resolving Power of the Order of Several

Thousands. (Mass-spektrometry s razreshayushchey siloy v

neskol'ko tysyach, Russian)

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 6, pp 1347 - 1356

(U.S.S.R.)

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ABSTRACT:

PERIODICAL:

It is shown that a pulse-resonance-mass-spectrometer can be used as an analytical device for gas-analytical purposes with a resolving power of several thousands. In order to realize this possibility the light intensity and sensitivity of the device were considerably increased 1) by the method of collecting ions in the source, 2) by the application of a specially developed generator of millimicroseconds-pulses with an increased sequence of frequencies, 3) by clarifying the basic causes of the occurrence of a remaining current and elaboration of a measuring system for its removal. With respect to the production and adjustment the device developed is more simple than those with double focussing and with a non-uniform field. One of the advantages offered by the device is the possibility of regulating the resolving power without effecting any changes in the vacuum chamber. This is possible by selecting the suitable number of revolutions by the frequency transformation of generator pulses.

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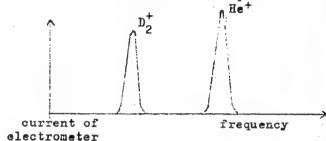
Mass-Spectrometer with Resolving Power of the Order of Several Thousands.

. 直接到1000年,直接建立基础的对象 人名斯拉

57-5-29/36

In the case of a reduction of the resolving power the light intensity of the device is increased. An important property of the device when used for purposes of analyses is the lack of "tails" or "trains" on the basis of the curves of mass points. (With 8 illustrations

and 6 Slavic references)



ASSOCIATION: LFTI of the Academy of Science of the U.S.S.R.

PRESENTED BY:

SUBMITTED:

3.3.1957

AVAILABLE:

Library of Congress

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550310011-4" SHUSTROV, B. N.

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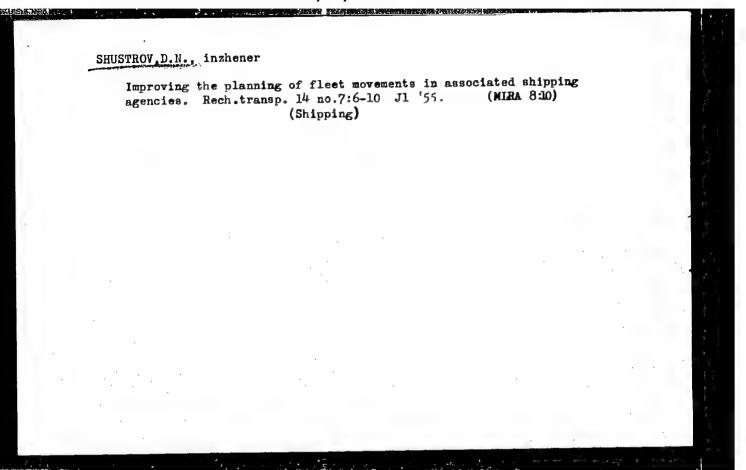
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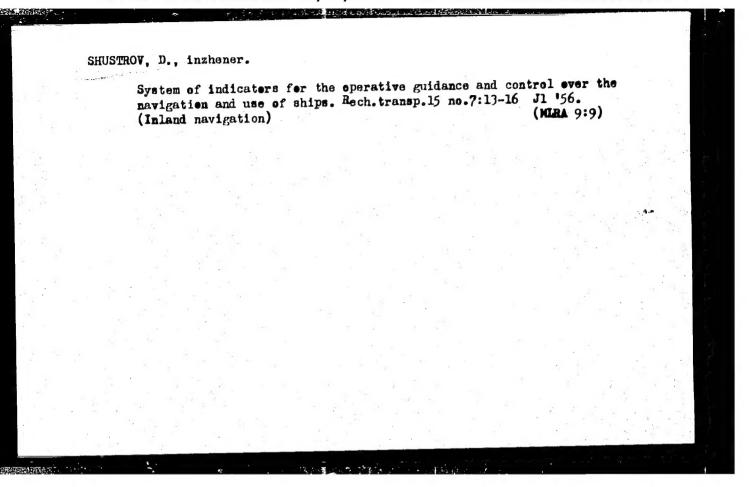
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